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# NUMBERS & ODDITIES #
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-::: N&O #68, December 2003 :::-

First of all I'd like to thank all the people who contributed to the N&O column in 2003, either direct or via WUN, Spooks and/or Enigma. I wish you all the best for 2004. Keep those logs coming folks!

A REASON TO PANIC?

The number of visitors to the Numbers & Oddities website has been growing steadily since its launch in May 1999. During the past 6 months however, I noticed that the popularity of the site is going down. The last 3 months of 2003 showed a fall of no less than 31%. Besides that, the combined number of numbers stations related mail to the WUN, Spooks and Enigma mailing lists dropped considerably. Interest in numbers stations seems to have declined dramatically. Can we turn the tide or will N&O, Spooks and Enigma be history by the end of 2004?

<<<<<>>>>>

* VOICE STATIONS *

Nothing to report this month. The only things I've got are the E03 and E04 idents compiled by Al and Tomonori and a nice E10 log from Alex. Danke Sch^n / Domo Arigato Gozaimas gentlemen!!!

::: E03 / E04

Cherry Ripe E04

Idents, period 23-28 November.

UTC	Sun	Mon	Tue	Wed	Thu	Fri	UTC
0000		16990	18227	60580	84797	37168	0000
0100		18227	60580	84797	37168	35470	0100
1000		60580	84797	37168	XXXXX	XXXXX	1000
1100		XXXXX	37168	XXXXX	90671	XXXXX	1100

1200		XXXXX	35470	XXXXX	XXXXX	XXXXX	1200
1300		XXXXX	90671	XXXXX	XXXXX	XXXXX	1300
1400							1400
2200	90671	60580	16990	18227	60580		2200
2300	60580	16990	18227	60580	84797		2300

Per 12 December.

UTC	Sun	Mon	Tue	Wed	Thu	Fri	UTC
0000		71589	81837	86420	91700	11536	0000
0100		81837	86420	91700	11536	92993	0100
1000		XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	1000
1100		XXXXX	11536	XXXXX	XXXXX	86420	1100
1200		XXXXX	XXXXX	XXXXX	XXXXX	71589	1200
1300		XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	1300
1400							1400
2200	05980	86420	71589	81837	86420		2200
2300	86420	71589	81837	86420	91700		2300

Per 19 December.

UTC	Sun	Mon	Tue	Wed	Thu	Fri	UTC
0000		33694	32933	83755	LOST	90779	0000
0100		32933	83755	53937	LOST	41290	0100
1000		XXXXX	XXXXX	XXXXX	XXXXX	77764	1000
1100		53937	XXXXX	XXXXX	77764	83755	1100
1200		XXXXX	XXXXX	XXXXX	83755	XXXXX	1200
1300		XXXXX	XXXXX	XXXXX	33694	XXXXX	1300
1400							1400
2200	XXXXX	83755	33694	LOST	83755		2200
2300	83755	33694	32933	LOST	53937		2300

Lincolnshire Poacher E03

Idents per 1 December.

UTC	Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC
1200	39062	39062	39062	39062	39062	39062	39062	1200
1300	86178	86178	86178	86178	86178	86178	86178	1300
1400	82913	25328	83860	74393	39062	06431	27779	1400
1500	27779	82913	25328	83860	74393	39062	37108	1500
1600	37108	27779	82913	25328	83860	74393	06431	1600
1700	06431	37108	27779	82913	25328	83860	39062	1700
1800	39062	06431	37108	27779	82913	25328	74393	1800
1900	74393	86178	06431	86178	27779	82913	86178	1900
2000	86178	39062	86178	37108	86178	27779	83860	2000
2100	83860	74393	39062	06431	37108	86178	25328	2100
2200	25328	83860	74393	39062	06431	37108	82913	2200

Lincolnshire Poacher E03
Idents per 15 December.

UTC	Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC
1200	88477	88477	88477	88477	88477	88477	88477	1200
1300	42818	42818	42818	42818	42818	42818	42818	1300
1400	57256	20979	00336	87205	88477	05523	19378	1400
1500	19378	57256	20979	00336	87205	88477	59295	1500
1600	59295	19378	57256	20979	00336	87205	05523	1600
1700	05523	59295	19378	57256	20979	00336	88477	1700
1800	88477	05523	59295	19378	57256	20979	87205	1800
1900	87205	42818	05523	42818	19378	57256	42818	1900
2000	42818	88477	42818	59295	42818	19378	00336	2000
2100	00336	87205	88477	05523	59295	42818	20979	2100
2200	20979	00336	87205	88477	05523	59295	57256	2200

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::: E10

PCD1 was observed on 4270//6498 kHz at 0030 UTC on 5 Dec. and at
2000 UTC on 17 Nov.

"BTW, doesn't E10 send strings anymore? I haven't seen them in ages."
That is what I wrote in the N&O column for the WUN newsletter. One day
after the deadline of the newsletter Alex sent us two E10 strings that
he had just logged. What a coincidence, huh?

4418 kHz, 20-12, 1837 UTC: FDUN
4418 kHz, 20-12, 1907 UTC: FDUM

-0-0-0-0-0-0-0-0-0-0-

* MORSE STATIONS *

Fritz's observations reached me too late for the November newsletter
but I have included them now.

M90 and M92 closed down per 3st October and M83 closed down per
November 10th. Maybe they are in another mode now or maybe they show
up again next year. M40 is possibly also gone.

<<<<<>>>>>

::: M01

4141 kHz 14.11 1820 UTC ID 210 GC 24

4135.5 kHz 21.11 1820 UTC ID 792 GC 26
 4648 kHz 18.11 1620 UTC ID 812 GC 26
 4648 kHz 5.12 1620 UTC ...5FG rptd = = 792 792 26 26 000
 4141 kHz 5.12 1820 UTC message of 1620z rptd
 4648 kHz 9.12 1620 UTC ID 792/26
 4615 kHz 21.12 2118 UTC ...5FG rptd = = 181 181 32 32 000
 4605 kHz 25.12 2140 UTC ...5FG rptd = = 181 181 32 32 000

M01B: 7745 kHz 9.10 1955 UTC ID 969 GC 34

M01C: 4039 kHz 17.12 1620 UTC 017 017 017 23589 23589 R3
 017 017 017 23314 23314 R3

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::: M03

4181 kHz 16.11 1630 UTC 287/00 R5 = = 000
 4181 kHz 9.12 1630 UTC 287/00 R5 = = 000
 4181 kHz 19.12 1630 UTC 287/00 R5 = = 000
 4181 kHz 20.12 1630 UTC 287/00 R5 = = 000
 4181 kHz 25.12 1630 UTC 287/00 R5 = = 000

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::: M10

4485 kHz 2.11 1600 UTC ID 870 GC 27
 4031 kHz 12.11 1630 UTC ID 275 GC 34
 ID 049 GC 39
 ID 435 GC 22
 4031 kHz 15.11 1630 UTC ID 275 GC 19
 ID 049 GC 25
 ID 435 GC 28
 4031 kHz 16.11 1630 UTC same as 15.11.
 5860 kHz 16.11 1930 UTC ID 494 GC 22
 4485 kHz 16.11 1620 UTC ID 323 GC 18
 6764 kHz 22.11 1648 UTC ID 049 GC 28
 ID 435 GC 32
 4007//3522 kHz 1.12 2100 UTC ID 846/20 ID 013/36
 4031//6763 kHz 1.12 1630 UTC ID 571/19 ID 275/28 ID 049/30 ID 435/40
 4007//3522 kHz 3.12 2100 UTC ID 846/13
 4031 kHz 6.12 1630 UTC ID 038/29 ID 435/29
 4485 kHz 7.12 1625 UTC
 4031//6763 kHz 7.12 1630 UTC ID 571/33 ID 049/29
 5946 kHz 8.12 1500 UTC ID 179/18 ID 223/34
 4031 kHz 8.12 1630 UTC ID 571/33 ID 049/29 ID 275/42 ID 435/29
 14978 kHz 9.12 1420 UTC ID 904/22

4031 kHz	13.12	1630 UTC	ID 571/42	ID 275/26	ID 049/34	ID 435/42
4007//3522 kHz	15.12	2100 UTC	ID 634/33	ID 310/35		
4007//3522 kHz	17.12	2100 UTC	ID 634/33	ID 310/35		
4031 kHz	17.12	1640 UTC				
4031 kHz	20.12	1630 UTC	ID 571/23	ID 275/28	ID 049/36	ID 435/18
4031//6763 kHz	21.12	1630 UTC	ID 571/23	ID 275/28	ID 049/36	ID 435/18
4485 kHz	21.12	1620 UTC				
4007//3522 kHz	21.12	2100 UTC	ID 735/33	ID 387/32		

<<<<<>>>>>

::: M12

7563 kHz	26.10	2100 UTC	ID 585	no message
8173 kHz	14.11	1750 UTC		
4595 kHz	1.12	1600 UTC		

<<<<<>>>>>

::: M13

3742 kHz	4.11	2100 UTC	ID 456	GC 104
7576 kHz	14.11	1800 UTC	ID 880	GC 23
5128 kHz	17.11	2107 UTC	ID 261	GC 21
4846.7 kHz	21.12	2100 UTC	695x3 000 R5 =	= 238 21 = 5FGx21 =
			695x3 000 R3 =	238 21 = txt rptd = 000

Andreas Heymann sent me a transcript of the M13 transmission of 15 Dec., 2000 UTC on 4155 kHz:

```

417 417 417 417 417 417 417 417 417 417 417 417
417 417 417 417 417 417 417 417 417 417 417 417
417 417 417 417 417 417 417 417 417 417 417 417
417 417 417 417 417 417 417 417 417 417 417 417
417 417 417 417 417 417 417 417 417 417 417 417
= 231 20 =
54022 65272 31498 41287 41413 47631 07019 32865 55672 57111
44286 47671 51753 41162 46462 13780 49782 52911 52146 44810 =
417 417 417 417 417 417 417 417 417 417 417 417
= 231 20 =
54022 65272 31498 41287 41413 47631 07019 32865 55672 57111
44286 47671 51753 41162 46462 13780 49782 52911 52146 44810 =
0 0 0

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::: M14

5081 kHz	7.11	2100 UTC	ID 639/524	GC 109
5460 kHz	4.11	1900 UTC	212 212 212 00000 (R4)	(EOT)
4620 kHz	21.11	1920 UTC	ID 819	GC 30
4620 kHz	5.12	1920 UTC	...5FG = =	219 219 58 58 00000
4641 kHz	19.12	2000 UTC	...5FG = =	715 715 38 38 00000

<<<<<>>>>>

::: M16

7668//10248//14931 kHz, various times.
 IDs 015/023/033/080/116/124/164/195/274/281/353/
 449/455/542/609/626/661/663/687/709/816/973

<<<<<>>>>>

::: M21 - Russian Air Defense

5201	kHz	10.10	1930 UTC	=992331??0?????
5873	kHz	23.10	1828 UTC	=992228??0?????
			1828 UTC	=24406901070724
			1829 UTC	=992229??0?????
		1.12	1420 UTC	=20291501050514 =15291651408642
4951.5	kHz	4.11	1912 UTC	=992212??0?????
3322	kHz	7.11	2140 UTC	=990040??0?????
5198	kHz	12.11	2137 UTC	=990037??0?????
6823.5	kHz	18.11	1557 UTC	=991857??0?????
3322	kHz	5.12-21.12		time strings, ID 0
4171	kHz	1.12	1635 UTC	time strings, ID 0
4951.5	kHz	1.12-21.12		time strings, ID 0
5198	kHz	1.12-20.12		time strings, ID 0
5873	kHz	1.12-19.12		time strings, ID 0

M21 variants

5372	kHz	PSSN	18.12	1605 UTC	vvv PSNN rptd, messages
5372	kHz	PSSN	19.12	1650 UTC	vvv PSNN rptd, messages
5310.5	kHz		24.12	1552 UTC	=9514919258852
					=9514919458154
					=9514915258954

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::: M22 - 4XZ, Israeli Navy

Chain 1	22.10	1930 UTC	4XZ on 2680//4331//5000//6379
Chain 2	22.10	1930 UTC	4XZ on 2800//4241//5159//8103//10064//12984

Chain 1 9.11 1940 UTC 4XZ on 2680//4331//6379
Chain 2 9.11 1940 UTC 4XZ on 2800//4241//5159//8103//10046//12984

<<<<<>>>>

::: M26

4007 kHz 21.11 1908 UTC 99 41136 R10 (then QRM5)
5199 kHz 22.11 1605 UTC 99 R2 95 80135 R2 91 R2 EOT

<<<<<>>>>

::: M40

This station seems to be gone too. We need some help from monitors in the Far East for this one. Igor has not heard it for quite a while. Did anyone else hear the station recently? Please, let us know.

<<<<<>>>>

::: M51

5130//5254 kHz 7.10 2007 UTC nr 29 o 07 22:06:56 2003 = 5LG (x100) =
5285 kHz 8.10 1001 UTC nr 57 o 08 12:01:30 2003 = 5LG (x100) =
5189//5892 kHz 9.10 1535 UTC messages
5405 kHz 4.11 1700 UTC messages
5338.5 kHz 6.11 0810 UTC messages
4483.5 kHz 11.11 1551 UTC nr 45 n 11 16:51:06 2003 = 5LG (x100) =
5096 kHz 11.11 1617 UTC messages
4486 kHz 12.11 1703 UTC messages
5189//5756 kHz 17.11 1630 UTC nr 45 n 17 17:29:20 2003 = 5LG (x100) =
5184//5224 kHz 18.11 1632 UTC messages
5374//5224 kHz 19.11 1620 UTC messages
4042.5 kHz 8.12 1515 UTC = nr d 08 16:15:55 2003 = 5LGx100
5250//5337 kHz 9.12 1510 UTC = nr d 09 16:10:43 2003 = 5LGx100
5870 kHz 8.12 1635 UTC messages

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::: M62

Skeds are 24 hours a day, 7 days a week.

3485//1732 kHz 1.10-10.10 B3ET B3ET B3ET = RNJ5 RNJ5 RNJ5 +
3485//1732 kHz 11.10-20.10 J7XD J7XD J7XD = D3QK D3QK D3QK +
3485//1732 kHz 21.10-31.10 QR2U QR2U QR2U = KP6F KP6F KP6F +
3485//1732 kHz 1.11-10.11 B3ET B3ET B3ET = RNJ5 RNJ5 RNJ5 +
3485//1732 kHz 11.11-20.11 J7XD J7XD J7XD = D3QK D3QK D3QK +

3485//1732 kHz 21.11-30.11 QR2U QR2U QR2U = KP6F KP6F KP6F +
3485//1732 kHz 1.12-10.12 B3ET B3ET B3ET = RNJ5 RNJ5 RNJ5 +
3485//1732 kHz 11.12-20.12 J7XD J7XD J7XD = D3QK D3QK D3QK +
3485//1732 kHz 21.12-31.12 QR2U QR2U QR2U = KP6F KP6F KP6F +

No messages, no time strings heard.

<<<<<>>>>>

::: M83

Skeds are 24 hours a day, 7 days a week.

5308 kHz 1.10-10.10 Markers: GRXZ D7CM HMRV F8DL Addressee: NJ2P
5291 kHz 11.10-20.10 Markers: GRXZ D7CM HMRV F8DL Addressee: NJ2P
5287 kHz 21.10-31.10 Markers: GRXZ D7CM HMRV F8DL Addressee: NJ2P
5299 kHz 1.11-10.11 Markers: W8CS ADKZ S5ZW ?? Addressee: PV6R

Samples:

5287 kHz 22.10
0719 UTC NJ2P de D7CM QTC 3 20 22 0917 = 5mixed (x20) +
0725 UTC NJ2P de D7CM QTC 4 20 22 0922 = 5LG (x20) +
0730 UTC NJ2P de D7CM QTC 5 20 22 0930 = 5FG (x20) +
0738 UTC NJ2P de D7CM QTC 6 20 22 0937 = 5mixed (x20) +
0800 UTC D7CM vvvvvvvvvvvvvvvvvvvvv +
5299 kHz 3.11
0745 UTC W8CS vvvvvvvvvvvvvvvvvvvvv +
6.11
0801 UTC PV6R de ADKZ QTC 1 10 6 0901 = 5LG (x20) +

Remarks:

Transmissions in MCW since October 21.
M83 started in November with its third set of QRA's and QRG's which
still were unknown.
M83 not heard since November 10.

<<<<<>>>>>

::: M87

Igor reports M87 and a possible variant of the station.

9839 kHz, 0130 UTC, 16 Dec.

249 249 249 000 000
249 249 249 000 000
249 249 249 000 000

249 249 249 000 000
249 249 249 000 000
249 249 249 000 000
249 249 249 000 000
249 249 249 000 000
249 249 249 000 000
249 249 249 000

8555 kHz, 0100 UTC, 16 Dec.

zxs zxs zxs zxs zxs zxs zxs de rdq rdq rdq qru
zxs zxs zxs zxs zxs zxs zxs zxs zxs zxs zxs zxs de rdq rdq rdq qru
zxs zxs zxs zxs zxs zxs de rdq rdq qru qru
zxs zxs zxs zxs zxs zxs de rdq rdq rdq qru qru
zxs zxs zxs zxs zxs zxs de rdq
zxs zxs zxs de rdq rdq qru qru
zxs zxs zxs zxs zxs zxs zxs zxs zxs zxs de rdq rdq rdq qru qru
zxs zxs zxs zxs zxs zxs zxs zxs de rdq rdq qru qru
zxs zxs zxs zxs zxs zxs de rdq rdq qru qru
va

<<<<<>>>>>

::: M89 - Chinese miliary

4831 kHz V GM3Z GM3Z GM3Z DE PNW9 PNW9 + 3 messages
7088 kHz V CP17 CP17 CP17 DE L9CC L9CC

<<<<<>>>>>

::: M90

4929//5239 kHz	S8BD	0530-1900 UTC	1.10-10.10
3337//3808 kHz	S8BD	1900-0530 UTC	1.10-10.10
4440//4924 kHz	U4NP	0530-1900 UTC	11.10-20.10
3341//3388 kHz	U4NP	1900-0530 UTC	11.10-20.10
4886//5121 kHz	CH8N	1900-0530 UTC	21.10-31.10
3380//3803 kHz	CH8N	0530-1900 UTC	21.10-31.10

Samples:

3341//3388 kHz 17.10 1929 UTC
HRT6 de U4NP QTC 132 +
3341//3388 kHz HRT6 de U4NP 75 20 17 2129 = 132 HRT6 = 5FG (x20) =
U4NP k

3380//3803 kHz 22.10 0530 UTC

TR2F de CH8N 398 074 298 014 col 398 074 298 014 k
 3380 kHz CH8N de A8B5 398 074 298 014 k
 3380 kHz CH8N de JG8F 398 074 298 014 k
 3380 kHz CH8N de A4PK 398 074 298 014 k
 3380//3803 kHz r k (Frequency changes)

Remark: M90 not observed since October 31.

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::: M91

Fritz observed the following Czech military activity:

4820//3996 kHz* 0600-1700 UTC 1.10-31.10
 2362//2852 kHz 1700-0600 UTC 1.10-31.10
 4820//3996 kHz* 0730-1630 UTC 1.11-30.11
 2362//2852 kHz 1630-0730 UTC 1.11-30.11
 4820//3996 kHz 0730-1600 UTC 1.12-31.12 usual tfc
 2362//2852 kHz 1600-0730 UTC 1.12-31.12 changes frequency after
 one trigram.

* audible in mornings only

Samples:

2362//2852 kHz 9.10 0539 UTC
 JUNQ de VNVO QTC 22 20 09 0739 814 = JUNQ = 5LG (x20) = VNVO +
 4820 kHz 10.10 1540 UTC
 JBG2 de Q8US QTC 52 20 10 1740 722 = JBG2 = 5LG (x20) = Q8US +
 28.10 1700 UTC
 FEU9 de ZBU7 743 col 743 + (Frequency changes)

Wolfgang and Jim also heard the station in December:

2362 kHz, A820 de S5N4 QTC
 ...1 21 2345 167 = A8Z0 = WRYDE ... = S5N4 AR

2362 kHz, a8zo de s5n4 qtc - 63 20 21 2010 167 - a8zo -
 cmkuo ubeyz 50253 cmkrl nvbbc 79786 sosio wqhpl 94819
 hpayz ucqmt 96980 odlcu ztvxi 59109 fnoqw vsklc 58404
 pwvtn imzmo - s5n4 +

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::: M92

4800//6820 kHz DRMB 0600-1000 UTC 1.10-10.10 Marker NPFP
 4900//5330 kHz KVF2 0600-1000 UTC 11.10-20.10 Marker W6QZ

5040//5460 kHz PD7D 0600-1000 UTC 21.10-31.10 Marker DKSL

Transmissions Monday to Friday only

Samples:

4900//5330 kHz 20.10 1000 UTC W6QZ de KVF2 783 col 783 + (EOT)
5040//5460 kHz 22.10 0635 UTC DKSL de PD7D 592 294 094 044 399 017
412 col 592 294 094 044 399 017 412 +
0745 UTC WB5T de PD7D QWX1 +
(unknown instruction)
5040//5460 kHz 27.10 0718 UTC DKSL de PD7D QTC 1 50 27 0815 =
734 DKSL = 5LG (x50)
0723 UTC DKSL de PD7D (QTC 1 repeated) = PD7D +

Remark: M92 not observed since October 31

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::: MX

L - 3336.1, 4091.7 kHz
V - 3658 kHz
P - 4042.9 kHz ("P" repeated, then "RDL RDL RDL" 5FG)
R - 5456.8 kHz

Low activity in Europe this month. The Asian cluster beacons were all on the air.

K - 7000 kHz. Spurious signal.
S - 7038.9 kHz
F - 7039.2 kHz
K - 7039.3 kHz
M - 7039.4 kHz. Also heard with a defected signal as DM and LM.
M - 7078 kHz. Spurious signal.
S - 13527.9 kHz

-0-0-0-0-0-0-0-0-0-0-

* OTHER MODES *

S28 - Buzzer on 4625 kHz
S30 - Pip on 3756 kHz
X06 - Mazielka calls on 8180 and ca 13200 kHz
M42 - DoSC Moscow, FSK-24.8/500 on 7952 kHz
XSW - Squeaky Wheel on 3828.9 kHz

-0-0-0-0-0-0-0-0-0-0-

★ UNID STATIONS ★

The following unid was logged by Igor. Clues anyone?

3504 kHz, 1024 UTC, 25 Nov.

vvv id id 941 941 941 k (rptd)

= uu 5u6n5 u4

= u3 5a4a4 u4

= u4 5and3 u4

= u4 5ann3 u5

= tt u5 5ad4n anu6

= u3 5udda u6

= u4 5a4a7 u6

= u5 5and3 u6

= tt u6 5ad7a anu7

vvv id id 941 941 941 k (rptd)

= u3 5udn7 u7

= u4 5a4a5 u7

= u5 5annu u7

= u6 5udd5 u7

<<<<<>>>>>

This one was heard by Fritz. It is not M90.

4993 kHz. First heard on 26-11 at 1600 UTC and regularly since.

"SFUX" repeated for 3 minutes.

-0-0-0-0-0-0-0-0-0-0-

★ MILITARY STATIONS ★

Logs from amongst others Jim, Fritz and John. Thanks gents.

::: RUSSIAN / CIS MILITARY

Freq. Callsigns

18.1 RDL: Russian Military VLF Site Krasnodar

18.1 RDL: Russian Military VLF Site Arkhangelsk

3207 CQMT, 1MJE, F93L, D8PN, P6PX, ABAT, 3UKS, 1MJE, PXXI, GENT.

3211 G3VN, YXF0, 9Y8P, X6VM, BZTC, 6?9E, ??6Z, GFH8, G3VN, 6JSG,
BXQY, ARJD, DINR

3217 7YBH, N8ME, TOLA, F3YC, BD8J, 3EPO, AKVL, TFPR, E8MU, AW90,
T90D, FXSZ. QSX 3393 kHz.

3354 2MS5, TWWF, TA9Y, B1SM, 5OAJ, AL6X

3393 TOLA, 7YBH. QSX 3217 kHz.

Sample message: 523 26 13 0052 523 = 726 =

PPPPP RTUTT ... FTUQM aEPWE = 384

3582 SP1K, 5PIK, YXOK, SK6X, GGT0

3813 LDBO. Sample message: LDBO LDBO LDBO QTC 085 24 16 2250 085 =
706 = 5LG (x24)= 773 rpt al QLN +

3826 SJ9M, FKLJ, ADHN, Z6ZP, AG3K, SUJQ, ESUP, HFF9, WRTZ, SX2X,
ALAT, CDCK. Sample message: 636 89 2 2200 636 BT 603.
Flash message: XXX XXX ESUP ESUP 03296 ZhyWALXNYJ 386"

3864 RCB, RIC85, RMU51. Sample message: "QSA ? QTC K" and passes wx
info. Preamble "459 44 1 2023 459 BT SML BT"

4586 LDBO. Sample message: LDBO LDBO LDBO QTC 653 20 9 2250 653 =
759 = 5LG (x20) = 759 +

4917 OT1C

5376 7GBQ, LG5M.
LG5M de 7GBQ QTC (rptd) then QTC 479 46 31 0306 479 = 526 =
EPLFN PPPPP LFXFR ... LKAIX EaPRE = 287 = RPT AL QLN K. Msg
bcast to collective LG5M and is to be repeated back to sender
on land line.

6776 SQ4T, MLYM

8816 RJC38: Russian Naval Aviation Northern Stn Murmansk. RJC38 and
RJC94/Moscow wkg aircraft 26832.

Unid Russian military (???) stations.

7861 kHz. RAL2 since 29.1.03 sporadically heard with traffic to
RDU2, RHW2, RFH2, only operational messages.

<<<<<>>>>>

::: UKRAINIAN MILITARY

Freq. Callsigns

3741 Z1AE.
QTC 174 62 22 2230 174 = 287 = BCYTA NIQMS ... PJoBu BBKEB =
Repeats msg ending RPT AL QLN AR.

3775 WLAR, FKPI, 8NLT, W1JG, OH2R, 5NOH, KO1W, FTAY, SMH8

3863 OLNK, OKON, Q81W, NMF5, JG60, 2LSV, SUKA, YZF7, BNZS, VQ8W,
YNPD, 8RFT, ICAM, E43K, X40S, 7ZIX, LKFC, Z2CB, EGA5. Sample
messages: preamble "889 62 1 1900 889 BT 528 BT". Preamble
"701 56 1 2230 701 BT 258 BT"

4826 MFNK

-0-0-0-0-0-0-0-0-0-0-

* CRYPTO *

Every now and then I visit my favorite crypto website "Toby's Crypto
site" at <http://hem.passagen.se/tan01/> because there is a lot of good
stuff on his pages. Especially the archives are interesting. Items
like the one below are accompanied by pictures of the original papers.

So, if you are interested in items like this, be sure to check Toby's website.

The following is an extract from "the Archives".

5-figure codes were the main cryptographic system used by the Soviet Navy in the Baltic Sea during WWII. Swedish signal intelligence intercepted the traffic on a regular basis, and made efforts to break the system. Just when the Swedish code breakers were beginning to get a grasp of the code in early January 1940, the Russians changed it. Despite this, the new code was cracked and the traffic readable by May 1940! The code was superenciphered with a so called additive, which was printed on a sheet - changed daily - having ten columns, and 30 rows with random 5-figure groups. Each row on the sheet was marked with a 3-figure number, and each column with a 2-figure number.

The first few rows of a sheet could look something like this:

	04	09	15	29	33	50	58	64	82	96
017	58201	10035	57184	00472	33727	18483	10622	37310	74512	23295
023	67844	98944	84216	17402	90246	19774	97823	98151	73785	04471
027	44380	53478	05713	75739	48921	60935	99042	63856	02744	43826

The code clerk chose a group on the sheet at random as starting point, and formed a 5-figure indicator group by combining the 3-figure row number with the 2-figure column number. Using the mock-sheet above, and starting on row two, column two, would result in the indicator group 02309. This group was later hidden in the final telegram. Starting at the group chosen on the sheet (=98944 following the example), the clerk then proceeded to write out one group from the sheet under each group he had looked up in the code book when doing the basic encoding of the plaintext. Then the groups were added together, figure by figure, using non-carrying addition ignoring the "tens" (i.e. 8+4 equals 2, not 12), the result of this operation being the final cryptogram.

Let's say our first group from the code book is 82697 meaning Warship "Karl Marx". Adding 98944 to this group by non-carrying addition would result in 70531.

The system was further complicated in March 1941 by performing a double superencipherment. The code clerk chose two, different starting points in the series on the sheet, and thus two numbers were added to each code group. This posed a formidable obstacle to cryptanalysis, and the new system was not broken until June 1942, more than a year later.

-0-0-0-0-0-0-0-0-0-0-

* INTELLITGENCE NEWS *

::: CHINA

Xinhua News Agency reports that China arrested 43 people in a Taiwan spy ring bust. 24 of them were Taiwanese and 19 were from the People's Republic. Taiwan (of course) denied the same report.

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::: RUSSIA

FSB chief Nikolai Patrushev states that the FSB caught five foreign spies this year and "Espionage and other subversive activities of 14 other career spies and of 37 agents of foreign governments, including two Russian citizens, have also been stopped". He did not say from what countries the spies were. (Source: ITAR-TASS/AP)

On 29th December, a jury acquitted a Russian physicist of espionage charges today, a rare defeat for the FSB. The trial of Valentin Danilov, a professor at Krasnoyarsk Technical University in Siberia, is among a series of high-profile spy cases against Russian researchers that have alarmed the scientific community and raised fears of a resurgence of Soviet-era KGB tactics. (Source: Associated Press)

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::: ISRAEL / INDIA

According to the Pakistan Times Monitoring Desk, Israeli officials have recently flown to New Delhi to complete the sale of sophisticated spy planes to India. The arms deal, one of the largest ever made by Israel, is worth more than \$1 billion.

Israeli officials say India will buy three Israeli-made Phalcon airborne early warning systems. The Phalcon consists of sophisticated radar mounted on a Russian-built cargo plane.

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* INTELLIGENCE PROFILE: UKRAINE *

::: BACKGROUND

Ukraine was the center of the first Slavic state, Kievan Rus, which during the 10th and 11th centuries was the largest and most powerful state in Europe. Weakened by internecine quarrels and Mongol invasions, Kievan Rus was incorporated into the Grand Duchy of Lithuania and eventually into the Polish-Lithuanian Commonwealth. The cultural and

religious legacy of Kievan Rus laid the foundation for Ukrainian nationalism through subsequent centuries. A new Ukrainian state, the Cossack Hetmanate, was established during the mid-17th century after an uprising against the Poles. Despite continuous Muscovite pressure, the Hetmanate managed to remain autonomous for well over 100 years. During the latter part of the 18th century, most Ukrainian ethnographic territory was absorbed by the Russian Empire. Following the collapse of tsarist Russia in 1917, Ukraine was able to bring about a short-lived period of independence (1917-1920), but was reconquered and forced to endure a brutal Soviet rule that engineered two artificial famines (1921-22 and 1932-33) in which over 8 million died. In World War II, German and Soviet armies were responsible for some 7 to 8 million more deaths. Although independence was achieved in 1991 with the dissolution of the USSR, true freedom remains elusive, as many of the former Soviet elite remain entrenched.

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::: GENERAL

Country name: Ukrayina (Ukraine)
Capital : Kyiv (Kiev)

Administrative divisions:

1 autonomous republic: Avtonomna Respublika Krym (Simferopol')
2 municipalities with oblast status: Kyiv, Sevastopol.
24 oblasti: Cherkas'ka (Cherkasy), Chernihivs'ka (Chernihiv), Chernivets'ka (Chernivtsi), Dnipropetrovs'ka (Dnipropetrovs'k), Donetsk'ka (Donetsk), Ivano-Frankivs'ka (Ivano-Frankivs'k), Kharkivs'ka (Kharkiv), Khersons'ka (Kherson), Khmel'nyts'ka (Khmel'nyts'kyy), Kirovohrads'ka (Kirovohrad), Kyivs'ka (Kiev), Luhans'ka (Luhansk), L'vivs'ka (Lviv), Mykolayivs'ka (Mykolayiv), Odes'ka (Odesa), Poltav's'ka (Poltava), Rivnens'ka (Rivne), Sums'ka (Sumy), Ternopil's'ka (Ternopil'), Vinnyts'ka (Vinnytsya), Volyns'ka (Luts'k), Zakarpats'ka (Uzhhorod), Zaporiz'ka (Zaporizhzhya), Zhytomyrs'ka (Zhytomyr).

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::: MILITARY BRANCHES & INTELLIGENCE

The military branches include the Ground Forces, Naval Forces, Air Force, Air Defense Forces, Interior Troops and Border Troops.

Intelligence community:

- Sluzhba Bespeky Ukrayiny - SBU (Security Service of Ukraine)
- Glavnoye Upravlenie Razvedki - GUR (Military Intelligence)
- Nacionalnoye Bureu Rassledovaniy - NBR (National Bureau of

Investigations)

- Operativno-Rozisknoye Upravlenie Gosgranici (Border Intelligence)
- National Security and Defence Council of Ukraine
- National Institute for Ukrainian Russian Relations
- National Institute for Strategic Studies

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::: SLUZHBA BESBEKY UKRAYINY - SBU
Security Service of Ukraine

The SBU was formed on September 20, 1991. By adopting the Law on Intelligence Agencies of Ukraine, the Ukrainian Parliament liquidated the Ukrainian KGB.

The structure of the SBU consists of the following elements:

- SBU Headquarters
- Regional SBU offices
- Main Intelligence Directorate of the SBU (GUR SBU)
- Main Office of the SBU in the Autonomous Republic of Crimea
- Military counter-intelligence
- Department for National Economy Counter-intelligence Protection
- Educational, research, and other establishments

The chief of the SBU is in charge of the SBU Headquarters, directing the operations and the work of the SBU as a whole. He is personally responsible for fulfillment of the tasks incumbent on the SBU.

The chief of the SBU is appointed by the Verkhovna Rada of Ukraine (= the Ukrainian Parliament) upon recommendation by the President of Ukraine.

The GUR SBU is established within the HQ of the SBU and is responsible for internal security, counter-intelligence, combating international organised crime like terrorism, drugs trafficking and arms smuggling.

Information and analytical support of central and local Ukrainian authorities is one of the priority activities of the SBU. Assessments, proposals, and prognoses made by SBU analysts play a significant role in the information and analysis support system of state decision making. They also constitute the basis of an internal system for detecting and counteracting internal and external threats to national security.

The Department for National Economy Counter-intelligence Protection is designated to be the leading element within the SBU's system charged with the development of strategies and tactics for the protection of national economic interests, and detection and preclusion of economic crimes.

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::: GLAVNOYE UPRAVLENIE RAVEDKI - GUR
Military Intelligence

The GUR is the Ukrainian counterpart of the Russian GRU, the military intelligence organisation. The GUR was formed in 1992. It's chief is Alexandr Galaka.

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::: OPERATIVNO-ROZISKNOYE UPRAVLENIE GOSGRANICI

The state border protection agencies of the Border Troops of Ukraine conduct counter intelligence operations in the zone along the border, the monitored border region, and at crossing points on the state border and in the territorial waters of Ukraine.

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::: NACIONALNOYE BUREU RASSLEDOVANIY - NBR
National Bureau of Investigations

The NBR can be compared with the FBI. It's tasks are about the same.

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::: NATIONAL SECURITY AND DEFENCE COUNCIL OF UKRAINE

The main legal basis of the NSDCU is Article 107 of the Ukrainian Constitution. The NSDCU was founded on 23 August, 1992 and acts according to the "Law on National Security and Defence Council of the Ukraine".

Article 24 of the 1991 Intelligence Law mentions the NSDCU and the role of the Ukrainian President.

"Control over the activities of intelligence agencies of Ukraine shall be exercised by the president of Ukraine within constitutional powers, including through the National Security and Defence Council of Ukraine headed by the president. Intelligence agencies of Ukraine shall report to the president of Ukraine on issues and under the procedure specified by the president of Ukraine."

Besides the President there are 15 other members of the NSDCU: the Chairman of Parliament, the Secretary of the NSDCU, the Prime Minister,

the Ministers of Extreme Situations, Foreign Affairs, Defence, Finances, Internal affairs and Economy. Further the Head of Administration of the President, the Head of the State Border Control Committee, the President of Science Academy, the Head of the SBU and the Chief of the General Staff.

The main tasks of the NSDCU are:

- Collection and analysis of data regarding internal and foreign policy;
- Prognosticate the tendencies of internal and foreign policy;
- Evaluation of threats and planning of counter-measures;
- Determination of security-related priorities in foreign, military, nuclear, ecological, information policy and external economical relations, etc.

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::: NATIONAL INSTITUTE FOR STRATEGIC STUDIES - NISS

The National Institute for Strategic Studies (NISS) was established in March 1992 as an academic entity first under the President of Ukraine, within the National Security and Defence Council of Ukraine.

NISS is a research institution with diverse and comprehensive programs of study. It undertakes fundamental and applied studies which cover the following areas: national security; international security and foreign policy; national defence policy; social strategies; political analyses and strategies; economic strategies; humanitarian policy; environmental security; informational security; regional developments. The basic task of NISS is to support through its activity policy- and decision-making processes.

The NISS works closely together with strategic partner NIURR.

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::: NATIONAL INSTITUTE FOR UKRAINIAN RUSSIAN RELATIONS - NIURR

The NIURR has 10 main departments:

Department of political technologies and information policy
Department of computer systems and technologies
Department of political relations
Department of analysis of internal processes in the Russian Federation
Department of economic relations
Department of regional relations
Department of humanitarian relations
Department of military and war technical relations
Editorial and publishing Department

Scientific Library

You can find a comprehensive description of the activities of these departments on the NIURR website.

Since 1998 the Institute, jointly with the NISS, has been publishing the quarterly Strategic Panorama which is devoted to trends and tendencies in Ukraine's national and international security and to the strategies of its development.

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::: SOURCES

SBU

<http://www.sbu.gov.ua/eng/>

NISS

<http://www.niss.gov.ua/>

GUR

<http://www.mil.gov.ua/ukr/razv.phtml?i=law>

National Security and Defence Council of Ukraine

<http://www.rainbow.gov.ua/>

National Institute for Ukrainian Russian Relations

<http://www.niurr.gov.ua/index.htm>

Agentura

<http://www.agentura.ru/dossier/ukraina/>

CIA World Factbook

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★ LOGS SECTION ★

2362	M91	S5N4 clg A8Z0 QTC CW 21-12-2003 1855 (WP3)
2800	M22	4XZ. Israeli navy with a VVV marker CW 16-12-2003 2354 (DW)
3025.0	M08a	ID 62262 44021 87463 CW 13-12-2003 Sat 1000 (MS)
3025.0	M08a	ID ----- 12723 13463 CW 18-12-2003 Thu 0900 (MS)
3025.0	M08a	ID 17413 ----- 37652 CW 18-12-2003 Thu 1000 (MS)
3025.0	M08a	(fades out - too weak to copy) CW 18-12-2003 Thu 1100
3150.0	E10	PCD in tfc USB 10-12-2003 Wed 0300 (BS4)
3244.0	M08a	ID 85742 47722 79071 CW 13-12-2003 Sat 1000 (MS)
3245.0	M08a	ID 25193 ----- ----- CW 19-12-2003 Fri 1100 (MS)

3292.0 V02a i/p AM 30-12-2003 Tue 0224 (BM)
3304 M13 456 174 54 CW 1-12-2003 2100 (JP)
3336.1 MX Channel marker "L" CW 17-12-2003 Wed 0019 (LC3)
3522.0 M10 555x3 630x3 37 996x3 29 (R5) (// freq on 5076m) CW
29-12-2003 Mon 0450 (MS)
3522.0 M10 555x3 (signal too weak for further copy) CW 29-12-2003
Mon 0535 (MS)
3522.0 M10 555x3 802x3 26 319x3 22 (R5) CW 30-12-2003 Tue 0400
3522.0 M10 555x3 214x3 19 (R5) CW 30-12-2003 Tue 0430 (MS)
3522.0 M10 555x3 630x3 37 996x3 29 (R5) (// freq on 5076m) CW
30-12-2003 Tue 0450 (MS)
3828.9 XSW Squeaky Wheel channel marker 30-12-2003 2123 (AB)
3845 G06 308-619/ 43=57631 AM 1-12-2003 Mon 2000 (HFD)
3926.0 M08a ID 80172 90302 37653 CW 19-12-2003 Fri 1000 (MS)
4027.0 M08a ID 85742 47722 79071 (rpt of 1000z on 3244m) CW
13-12-2003 Sat 1100 (MS)
4027.0 M08a 80173 CW 20-12-2003 Sat 0000
4027.0 M08a ID 80173 90303 35541 CW 20-12-2003 Sat 1100 (MS)
4028.0 V02a (in progress - YL/SS) USB 19-12-2003 Fri 0500 (MS)
4150 M13 417 CW 28-12-2003 Sun 2000 (HFD)
4155 M13 417 417 417 = 231 20 = 5FGs = 417 417 417 = 231 20
= 5FGs = 000 CW 15-12-2003 2000 (AH2)
4165.0 E10 SYN2 USB 17-12-2003 Wed 0345 (BS4)
4173.0 M08a ID 85743 79072 47723 CW 14-12-2003 Sun 1100 (MS)
4173.0 M08a ID 64273 37651 38813 CW 17-12-2003 Wed 1100 (MS)
4173.0 M08a ID 80172 90302 37653 (rpt of 1000z on 3926m) CW
19-12-2003 Fri 1100 (MS)
4173.0 M08a ID ----- 35542 78321 (this sked got off to a late
start) CW 21-12-2003 Sun 1100 (MS)
4173.0 M08a ID 16301 69341 40342 CW 24-12-2003 Wed 1100 (MS)
4173.0 M08a ID 79282 73501 21782 CW 28-12-2003 Sun 1100 (MS)
4173.0 M08a ID 16302 73503 40344 CW 31-12-2003 Wed 1100 (MS)
4270.0 E10 PCD1//6498 USB 5-12-2003 Fri 0030 (BS4)
4270.0 E10 PCD in tfc USB 16-12-2003 Tue 0230 (BS4)
4283.0 M13 346 (R5) BT 229 21 BT CW 23-12-2003 Tue 2200 (MS)
4418 E10 FDUN AM 20-12-2003 1837 (AA)
4418 E10 FDUM AM 20-12-2003 1907 (AA)
4441.0 M22 4XZ Israeli Navy Haifa numbers messages traffic CW
17-12-2003 Wed 0020 (JS3)
4461.0 E10 FTJ2 USB 2-12-2003 Tue 2330 (BS4)
4461.0 E10 FTJ in tfc USB 9-12-2003 Tue 2330 (BS4)
4461.0 E10 FTJ in tfc USB 10-12-2003 Wed 0300 (BS4)
4461.0 E10 FTJ USB 14-12-2003 Sun 2330 (BS4)
4461.0 E10 FTJ 140 NHZJZ USB 22-12-2003 Mon 2030 (JS3)
4461.0 E10 FTJ 160 NHCJZ AM 27-12-2003 Sat 2130 (JS3)
4478.0 M08a (Late start - missed callups) CW 16-12-2003 Tue 1100
4478.0 M08a ID 44633 35441 40971 CW 20-12-2003 Sat 1100 (MS)
4478.0 M08a (missed callups) CW 30-12-2003 Tue 1100 (MS)

4479.0 V02a LSB 3-12-2003 Wed 0314
 4479.0 V02a (in progress - YL/SS) USB 19-12-2003 Fri 0400 (MS)
 4479.0 V02a Y/L SS, Faint USB 31-12-2003 Wed 0334 (GS)
 4507.0 V02a (in progress - missed calls. YL/SS) USB 13-12-2003 Sat 1100 (MS)
 4560.0 E10 YHF2 USB 10-12-2003 Wed 0230 (BS4)
 4582 XP msg AM 2-12-2003 Tue 2140 (HFD)
 4582 XP msg AM 4-12-2003 Thu 2140 (HFD)
 4582 XP msg AM 11-12-2003 Thu 2140 (HFD)
 4648.0 E10 VLB2 USB 17-12-2003 Wed 0345 (BS4)
 4792 G06 ip AM 12-12-2003 Fri 1940 (HFD)
 4795.0 G06 German Female Voice!!!!; telling Numbers like Eins Zwo
 Drei Vier Fue AM 26-12-2003 Fri 1940 (RedXXX)
 4831 M89 V GM3Z DE PNW9 CW 29-11-2003 1842 (AtB)
 4846 M13A 695:0 CW 23-12-2003 Tue 2100 (HFD)
 4880.0 E10 ULX 16 BYEFL USB 5-12-2003 Fri 0030 (BS4)
 4880.0 E10 ULX USB 10-12-2003 Wed 0200 (BS4)
 4880.0 E10 ULX in tfc USB 16-12-2003 Tue 0200 (BS4)
 4880.0 E10 ULX in tfc USB 16-12-2003 Tue 0230 (BS4)
 5076.0 M10 555x3 630x3 37 996x3 29 (R5) (// freq on 3522m) CW
 29-12-2003 Mon 0450 (MS)
 5076.0 M10 555x3 630x3 37 996x3 29 (R5) (// freq on 3522m) CW
 30-12-2003 Tue 0450 (MS)
 5091.0 E10 JSR 24 KK????, ?? ????? USB 14-12-2003 Sun 2230 (BS4)
 5098 M13 261 CW 8-12-2003 Mon 2000 (HFD)
 5103 E07 ip AM 22-12-2003 Mon 2142 (HFD)
 5159 M22 4XZ. Israel navy with a VVV marker CW 3-12-2003 1932
 5170.0 E10 CI02 USB 17-12-2003 Wed 0345 (BS4)
 5190 G06 308-619/ 43=57631 AM 1-12-2003 Mon 1900 (HFD)
 5228 M13 261 CW 7-12-2003 Sun 2100 (HFD)
 5301.0 M10 (in progress) BT BT 34 34 42 42 372x3 06 06 32 32 BT
 BT CW 23-12-2003 Tue 2212 (MS)
 5301.0 M10 555x3 630x3 37 996x3 29 (R5) CW 29-12-2003 Mon 2200
 (MS)
 5301.0 M10 555x3 630x3 37 996x3 29 (R5) (rpt of 0450z on 3522m
 and 5076m) CW 30-12-2003 Tue 2200 (MS)
 5388 XP msg AM 11-12-2003 Thu 2220 (HFD)
 5435 E10 ART2 AM 27-12-2003 2230 (SP1)
 5435.0 E10 ART2 USB 2-12-2003 Tue 0200 (BS4)
 5435.0 E10 ART2 USB 2-12-2003 Tue 2300 (BS4)
 5435.0 E10 ART2 USB 2-12-2003 Tue 2330 (BS4)
 5435.0 E10 ART2 USB 10-12-2003 Wed 0130 (BS4)
 5437.0 E10 ART ?7 ????? USB 4-12-2003 Thu 0030 (GG)
 5437.0 E10 ART 37 ETEGB USB 6-12-2003 Sat 0030 (GG)
 5437.0 E10 ART 25 VPPAC USB 9-12-2003 Tue 0030 (GG)
 5437.0 E10 ART weak with fading USB 19-12-2003 Fri 0030 (GG)
 5437.0 E10 ART weak with fading USB 20-12-2003 Sat 0030 (GG)
 5462.0 E06 English Man telling Numbers AM 26-12-2003 Fri 2111

(RedXXX)

5503.0	M13	501 (R5) BT 235 21 BT CW 29-12-2003 Mon 2215 (MS)
5625	S06	624 nul msg AM 30-12-2003 1800 (JS3)
5625	S06	624:0 AM 30-12-2003 Tue 1800 (HFD)
5731	XP	msg AM 2-12-2003 Tue 2120 (HFD)
5731	XP	msg AM 4-12-2003 Thu 2120 (HFD)
5731	XP	msg AM 11-12-2003 Thu 2120 (HFD)
5762.0		Female counting in Spanish USB 27-12-2003 Sat 0430
5820.0	E10	YHF 111 IBQTK//7918 USB 2-12-2003 Tue 0130 (BS4)
5872	M21	Russian Air Defense CW 29-11-2003 1630 (AtB)
5872	M21	Russian Air Defense CW 1-12-2003 1420 (WP3)
5942	XP	msg AM 4-12-2003 Thu 2100 (HFD)
5942	XP	msg AM 11-12-2003 Thu 2100 (HFD)
6270.0	E10	ULX 19 ?VCA0, ?? ????? USB 2-12-2003 Tue 2300 (BS4)
6273	M13	517 CW 1-12-2003 Mon 2000 (HFD)
6273	M13	517 CW 1-12-2003 Mon 2100 (HFD)
6273	M13	517 CW 2-12-2003 Tue 2000 (HFD)
6273	M13	517 CW 2-12-2003 Tue 2100 (HFD)
6273	M13	517 CW 16-12-2003 Tue 2000 (HFD)
6273	M13	517 CW 16-12-2003 Tue 2100 (HFD)
6498.0	E10	PCD1//4270 USB 5-12-2003 Fri 0030 (BS4)
6768.0	V02a	ID 74931 34..3 98933 (YL/SS) USB 29-12-2003 Mon 0400 (MS)
6788	XP	msg AM 11-12-2003 Thu 2240 (HFD)
6797.0	M08a	ID 40363 62111 56251 (AR = OE, BT = K) CW 17-12-2003 Wed 1200 (MS)
6797.0	M08a	ID 45022 62113 56253 (AR=OE, BT=K) CW 19-12-2003 Fri 1200 (MS)
6797.0	M08a	ID 84963 32881 08721 (AR=OE, BT=K) CW 24-12-2003 Wed 1200 (MS)
6797.0	M08a	ID 25433 31321 01951 (AR=OE, BT=K) CW 29-12-2003 Mon 1200 (MS)
6797.0	M08a	ID 04162 31323 01953 (AR=OE, BT=K) CW 31-12-2003 Wed 1200 (MS)
6840	E10	in progress AM 30-12-2003 1943 (RGA)
6840.0	E10	EZI 38 BXUCQ//9130 USB 2-12-2003 Tue 0130 (BS4)
6840.0	E10	EZI 61 VMDCR USB 2-12-2003 Tue 2330 (BS4)
6840.0	E10	EZI 38 BXUCQ USB 5-12-2003 Fri 0130 (BS4)
6840.0	E10	EZI 79 MCNQI USB 7-12-2003 Sun 2130 (BS4)
6840.0	E10	EZI in tfc USB 9-12-2003 Tue 2330 (BS4)
6840.0	E10	EZI 79 ?CNQI USB 10-12-2003 Wed 0130 (BS4)
6840.0	E10	EZI 38 NUGQS//9130 USB 14-12-2003 Sun 2130 (BS4)
6840.0	E10	EZI in tfc USB 14-12-2003 Sun 2200 (BS4)
6840.0	E10	EZI 61 ?MDCR USB 14-12-2003 Sun 2330 (BS4)
6840.0	E10	YL/EE, Faint USB 31-12-2003 Wed 2210 (GS)
6912.0	E10	KPA2 USB 16-12-2003 Tue 0215 (BS4)
6933.0	M08a	ID 26373 03381 21021 CW 13-12-2003 Sat 1200 (MS)
6933.0	M08a	ID 45021 62112 56252 (AR=OE, BT=K) CW 18-12-2003 Thu

1200 (MS)
 6933.0 M08a ID 45023 11741 24981 (AR=OE, BT=K) CW 20-12-2003 Sat
 1200 (MS)
 6933.0 M08a ID 04161 31322 01952 (AR=OE, BT=K) CW 30-12-2003 Tue
 1200 (MS)
 6934 E07 913:0 AM 3-12-2003 Wed 0610 (HFD)
 6959.0 E03 USB 27-12-2003 Sat 2200 (N8KDV)
 6964 E07 981 AM 3-12-2003 Wed 2100 (HFD)
 7039.3 MX Cluster beacon "K" CW 29-12-2003 1400 (RNF)
 7039.4 MX Cluster beacon "M" CW 29-12-2003 1400 (RNF)
 7320.0 M08a ID 40363 62111 56251 (AR = OE, BT = K) CW 17-12-2003
 Wed 1300 (MS)
 7320.0 M08a ID 45022 62113 56253 (rpt of 1200z on 6797m)(AR=OE,
 BT=K) CW 19-12-2003 Fri 1300 (MS)
 7320.0 M08a ID 84963 32881 08721 (AR=OE, BT=K) CW 24-12-2003 Wed
 1300 (MS)
 7320.0 M08a ID 25433 31321 01951 (AR=OE, BT=K) (rpt of 1200z on
 6797m) CW 29-12-2003 Mon 1300 (MS)
 7485 M13 254 CW 18-12-2003 Thu 2200 (HFD)
 7485.0 M13 254 (R5) BT 241 20 BT CW 18-12-2003 Thu 2200 (MS)
 7519.0 M08a ID 01103 10021 95081 CW 19-12-2003 Fri 2200 (MS)
 7519.0 M08a ID 02921 79793 21263 CW 26-12-2003 Fri 2200 (MS)
 7519.0 M08a ID 02922 79794 21264 CW 29-12-2003 Mon 2200 (MS)
 7519.0 M08a C/W along with RHC 7520 CW 31-12-2003 Wed 2212 (GS)
 7526.0 M08a ID 67802 10023 95083 CW 23-12-2003 Tue 2200 (MS)
 7526.0 M08a ID 02923 69661 45551 CW 30-12-2003 Tue 2200 (MS)
 7555.0 M08a ID ----- 34033 ----- (AR = OE, BT = K) CW 17-12-2003
 Wed 0800 (MS)
 7555.0 M08a ID 39181 06772 58232 (rpt of 0700z on 8136m)(AR=OE,
 BT=K) CW 19-12-2003 Fri 0800 (MS)
 7555.0 M08a ID 21633 59821 26181 (rpt of 0700z on 8136m) (AR=OE,
 BT=K) CW 24-12-2003 Wed 0800 (MS)
 7583.0 V02a (missed callup) (YL/SS) USB 29-12-2003 Mon 1000 (MS)
 7680.0 M08a ID 64932 66373 63693 (AR=OE, BT=K) CW 14-12-2003 Sun
 0800 (MS)
 7730 S06 847:0 AM 30-12-2003 Tue 1630 (HFD)
 7737 M13 714 CW 11-12-2003 Thu 2100 (HFD)
 7737 M13 714 CW 12-12-2003 Fri 2100 (HFD)
 7737 M13 714 CW 27-12-2003 Sat 2100 (HFD)
 7737.0 M13 714 (R5) BT 231 20 BT CW 26-12-2003 Fri 2100 (MS)
 7760.0 E10 ULX2 AM 28-12-2003 Sun 1630 (JS3)
 7824.0 M13 253 (R5) BT 234 21 BT CW 18-12-2003 Thu 2100 (MS)
 7824.0 M13 253 (R5) BT 234 21 BT CW 19-12-2003 Fri 2100 (MS)
 7887 E03 83860 AM 1-12-2003 Mon 2106 (HFD)
 7890.0 M08a ID 26373 03381 21021 CW 13-12-2003 Sat 1300 (MS)
 7890.0 M08a ID 45021 62112 56252 (AR=OE, BT=K) CW 18-12-2003 Thu
 1300 (MS)
 7890.0 M08a ID 45023 11741 24981 (AR=OE, BT=K) (rpt of 1200z on

6933m) CW 20-12-2003 Sat 1300 (MS)
 7890.0 M08a ID 04161 31322 01952 (AR=OE, BT=K) (rpt of 1200z on
 6933m) CW 30-12-2003 Tue 1300 (MS)
 7918 E10 in progress AM 30-12-2003 1938 (RGA)
 7918.0 E10 YHF 111 IBQTK//5820 USB 2-12-2003 Tue 0130 (BS4)
 7918.0 E10 YHF2//9202 USB 2-12-2003 Tue 0200 (BS4)
 7918.0 E10 YHF in tfc USB 5-12-2003 Fri 0130 (BS4)
 7918.0 E10 YHF 73 DXPCB AM 28-12-2003 Sun 1600 (JS3)
 7918.0 E10 YHF 2 msgs: 68 XIBRR, 71 IIJMG AM 28-12-2003 Sun 1630
 (JS3)
 7952 M42 DoSC Moscow FSK 20-12-2003 0818 (LDO)
 8009.0 M08a ID 01102 73373 98743 CW 18-12-2003 Thu 2200 (MS)
 8009.0 M08a ID 02922 79794 21264 (rpt of 2200z on 7519m) CW
 29-12-2003 Mon 2300 (MS)
 8009.0 M08a C/W CW 31-12-2003 Wed 2305 (GS)
 8010.0 V02a ID ----- 33853 33351 USB 24-12-2003 Wed 0600 (MS)
 8010.0 V02a Y/L SS, Clear Reception AM 31-12-2003 Wed 0602 (GS)
 8135.0 M08a ID 01102 73373 98743 CW 18-12-2003 Thu 2300 (MS)
 8135.0 M08a ID 01103 10021 95081 (rpt of 2200z on 7519m) CW
 19-12-2003 Fri 2300 (MS)
 8135.0 M08a ID 67802 10023 95083 (rpt of 2200z on 7526m) CW
 23-12-2003 Tue 2300 (MS)
 8135.0 M08a ID 02921 79793 21263 (rpt of 2200z on 7519m) CW
 26-12-2003 Fri 2300 (MS)
 8135.0 M08a ID 02923 69661 45551 (rpt of 2200z on 7526m) CW
 30-12-2003 Tue 2300 (MS)
 8136.0 M08a ID 50293 74812 87002 CW 13-12-2003 Sat 1100 (MS)
 8136.0 M08a ID 78783 81041 87003 (AR=OE, BT=K) CW 14-12-2003 Sun
 1000 (MS)
 8136.0 M08a ID 39181 06772 58232 (AR=OE, BT=K) CW 19-12-2003 Fri
 0700 (MS)
 8136.0 M08a ID 10062 56281 49473 (AR=OE, BT=K) CW 20-12-2003 Sat
 1100 (MS)
 8136.0 M08a ID 21633 59821 26181 (AR=OE, BT=K) CW 24-12-2003 Wed
 0700 (MS)
 8175.0 M10 555x3 609x3 38 (R5) CW 30-12-2003 Tue 0430 (MS)
 8180 X06 AM 20-12-2003 Sat 1803 (HFD)
 8180 X06 Mazielka calls 30-12-2003 1630 (RiN)
 8188 XP msg AM 11-12-2003 Thu 2220 (HFD)
 8555 M87? Possible M87 variant: zxs zxs zxs zxs zxs zxs zxs zxs
 zxs zxs zxs zxs de rdq rdq qru va CW 16-12-2003
 9060.0 M08 C/W USB 31-12-2003 Wed 0503 (GS)
 9062.0 M08a ID 84242 15013 17092 CW 18-12-2003 Thu 0400 (MS)
 9062.0 M08a ID 58111 8.2.3 411.0 CW 19-12-2003 Fri 0500 (MS)
 9062.0 M08a ID 78861 56763 49473 CW 21-12-2003 Sun 0500 (MS)
 9062.5 M08a i/p CW 18-12-2003 Thu 0405 (BM)
 9063.0 V02a ID 79662 84363 53383 (YL/SS) USB 19-12-2003 Fri 0700
 9063.0 V02a ID 38433 33853 33351 (rpt of 0600z on 8010m -- YL/SS)

USB 24-12-2003 Wed 0700 (MS)
 9123 X06 AM 5-12-2003 Fri 0603 (HFD)
 9130.0 E10 EZI 38 BXUCQ//6840 USB 2-12-2003 Tue 0130 (BS4)
 9130.0 E10 EZI2 USB 2-12-2003 Tue 0200 (BS4)
 9130.0 E10 EZI 38 NUGQS//6840 USB 14-12-2003 Sun 2130 (BS4)
 9152.0 M08a (late start) ----- 87002 (this should be rpt of
 1100z on 8136m) CW 13-12-2003 Sat 1218 (MS)
 9153.0 M08a ID 42332 81043 49472 (AR=OE, BT=K) CW 19-12-2003 Fri
 1000 (MS)
 9153.0 M08a ID 56282 56122 10063 CW 24-12-2003 Wed 1000 (MS)
 9153.0 V02 AM 28-12-2003 Sun 0606 (C0)
 9165 S17C 72031 AM 27-12-2003 Sat 1250 (HFD)
 9165 S17C 82031 AM 28-12-2003 Sun 1250 (HFD)
 9165 S17C 83032 AM 29-12-2003 Mon 1250 (HFD)
 9202.0 E10 YHF2//7918 USB 2-12-2003 Tue 0200 (BS4)
 9238.0 M08a ID 78783 81041 87003 (AR=OE, BT=K) (rpt to 1000z on
 8136m) CW 14-12-2003 Sun 1100 (MS)
 9238.0 M08a ID ----- 51162 47433 (AR=OE, BT=K) CW 16-12-2003 Tue
 1000 (MS)
 9238.0 M08a ID 49921 78212 65762 (AR = OE, BT = K) CW 17-12-2003
 Wed 0900 (MS)
 9238.0 M08a ID ----- 94821 95631 (rpt of 0800z on 10446m)(AR=OE,
 BT=K) CW 19-12-2003 Fri 0900 (MS)
 9238.0 M08a ID 42333 35271 71661 CW 21-12-2003 Sun 1100 (MS)
 9238.0 M08a (in progress - missed callup) CW 24-12-2003 Wed 0900
 9238.0 M08a ID 02142 76491 31821 CW 28-12-2003 Sun 1100 (MS)
 9238.0 M08a ID 76801 31823 61392 (AR=OE, BT=K) CW 30-12-2003 Tue
 1000 (MS)
 9251.0 E03 USB 28-12-2003 Sun 1800 (N8KDV)
 9272 V07 261:0 AM 16-12-2003 Tue 0600 (HFD)
 9323.0 M08a ID 24131 82103 63463 CW 13-12-2003 Sat 1000 (MS)
 9323.0 M08a ID ----- 28282 (AR=OE, BT=K) (LATE START-MISSED
 CALLUP) CW 14-12-2003 Sun 0900 (MS)
 9323.0 M08a ID 42331 37372 49471 (AR=OE, BT=K) CW 18-12-2003 Thu
 1000 (MS)
 9323.0 V02a (missed calls - YL/SS) USB 18-12-2003 Thu 0400 (MS)
 9323.0 V02a i/p; gaps in broadcast; many problems AM 18-12-2003
 Thu 0406 (BM)
 9323.5 V02a Weak with deep fades weird freq AM 26-12-2003 Fri
 0006 (Vambo)
 9330.0 M08a ID 58113 42672 71663 CW 24-12-2003 Wed 0400 (MS)
 9331.0 M08 C/W USB 31-12-2003 Wed 0400 (GS)
 9331.0 V02a ID ----- 97831 25491 (rpt of 0500z on 9354m--YL/SS)
 USB 24-12-2003 Wed 0600 (MS)
 9331.0 V02a Spanish Y/L, 5 group. 4 minute gap after "Atencion".
 Excellent rec AM 29-12-2003 Mon 0600 (GS)
 9331.0 V02a (no callup, target began callup and stopped, came back
 later in traf USB 29-12-2003 Mon 0600 (MS)

9331.0 V02a Y/L SS, Faint USB 31-12-2003 Wed 0600 (GS)
 9354.0 V02a ID ----- 97831 25491 USB 24-12-2003 Wed 0500 (MS)
 9600.0 Open carrier w/SS talk in background, did not know
 they were on the USB 31-12-2003 Wed 0500 (GS)
 9839 M87 249 249 249 000 000 CW 16-12-2003 0130 (IB)
 10118.0 M08 C/W USB 31-12-2003 Wed 0504 (GS)
 10119.0 M08a ID 58113 42672 71663 (rpt of 0400z on 9330m) CW
 24-12-2003 Wed 0500 (MS)
 10125.0 M08a ID 68381 30833 09071 CW 16-12-2003 Tue 0300 (MS)
 10125.0 M08a ID 11271 47091 52161 CW 30-12-2003 Tue 0300 (MS)
 10126.0 M08? Clear Reception AM 30-12-2003 Tue 0302 (GS)
 10126.0 M08a ID 70443 71511 28281 CW 13-12-2003 Sat 0900 (MS)
 10126.0 M08a ID 75923 78211 65761 (AR=OE, BT=K) CW 16-12-2003 Tue
 0900 (MS)
 10126.0 M08a ID 46453 51163 ----- (AR = OE, BT = K) CW 17-12-2003
 Wed 1100 (MS)
 10126.0 M08a ID 49922 78213 65763 (AR=OE, BT=K) CW 18-12-2003 Thu
 0900 (MS)
 10126.0 M08a ID 42332 81043 49472 (rpt of 1000z on 9153m) (AR=OE,
 BT=K) CW 19-12-2003 Fri 1100 (MS)
 10126.0 M08a ID 50033 84171 85433 (AR=OE, BT=K) CW 24-12-2003 Wed
 1100 (MS)
 10126.0 M08a ID 02143 31822 76492 (AR=OE, BT=K) CW 29-12-2003 Mon
 1100 (MS)
 10126.0 M08a i/p CW 30-12-2003 Tue 0306 (BM)
 10126.0 M08a ID 57971 56123 21372 (AR=OE, BT=K) CW 31-12-2003 Wed
 1100 (MS)
 10190 S06 493:0 AM 30-12-2003 Tue 1500 (HFD)
 10233.0 M08 C/W CW 31-12-2003 Wed 0402 (GS)
 10235.0 M08a ID 44662 56462 87002 CW 14-12-2003 Sun 0400 (MS)
 10235.0 M08a ID 78861 56763 49473 CW 21-12-2003 Sun 0400 (MS)
 10248 M16 8BY. DGSE CW 13-12-2003 1441 (ML4)
 10344.0 M08a (transmission garbled - uncopiable) CW 18-12-2003 Thu
 0300 (MS)
 10344.0 M08a ID ----- 82813 (after about 5 minutes signal
 strength was prac CW 20-12-2003 Sat 1100 (MS)
 10346.0 M08a ID 60481 40933 63463 (note: 63463 is also last
 addressee of 1000z on CW 13-12-2003 Sat 1100 (MS)
 10346.0 M08a ID 42331 37372 49471 (AR=OE, BT=K) CW 18-12-2003 Thu
 1100 (MS)
 10445.0 M08a ID ----- 83533 09072 CW 18-12-2003 Thu 0300 (MS)
 10446.0 M08a (Late start - missed callups) CW 16-12-2003 Tue 1100
 10446.0 M08a ID 49921 78212 65762 (AR = OE, BT = K) CW 17-12-2003
 Wed 0800 (MS)
 10446.0 M08a ID ----- 95631 (AR=OE, BT=K) CW 19-12-2003 Fri
 0800 (MS)
 10446.0 M08a (in progress - missed callup) CW 24-12-2003 Wed 0800
 10446.0 M08a ID 76801 31823 61392 (AR=OE, BT=K) (rpt of 1000z on

9238m) CW 30-12-2003 Tue 1100 (MS)
 10446.0 V02a Spanish Y/L 5 group, "Final" 3 times at close. USB
 29-12-2003 Mon 0515 (GS)
 11116 E11 232:00 AM 5-12-2003 Fri 0800 (HFD)
 11170 M22 4XZ. Israeli navy PSK 4x75bd 13-12-2003 0755 (LDO)
 11418 E06 419 AM 27-12-2003 (RiN)
 11418 E06 419-579/128=32146 AM 28-12-2003 Sun 1500 (HFD)
 12215.0 V02 End of S AM 30-12-2003 Tue 0220 (GS)
 12215.0 V02a Spanish Y/L, Faint AM 29-12-2003 Mon 0215 (GS)
 12215.0 V02a i/p AM 30-12-2003 Tue 0231 (BM)
 13528.4 MX Cluster beacon "M" CW 4-12-2003 1836
 13893 E06 579/128 = 32146 AM 13-12-2003 1400 (GN)
 13893 E06 419 AM 27-12-2003 1400 (RiN)
 13893 E06 419-579/128=32146 AM 28-12-2003 Sun 1400 (HFD)
 15840 E06 579 AM 27-12-2003 1500 (RiN)
 15840 E06 579-579/128=82031 AM 28-12-2003 Sun 1500 (HFD)
 18190 E06 419 AM 27-12-2003 1400 (AB)
 18190 E06 579-579/128=32146 AM 28-12-2003 Sun 1400 (HFD)
 18190 E06 in progress. Ends with 00000 AM 28-12-2003 1425 (AH)
 18215 M23 555 CW 21-12-2003 1730 (MC)
 20946 M16 VVV VVV VVV 8BY 8BY 8BY 023 / 862 / 816 / 459 / 982 CW
 4-12-2003 0844 (KK2)
 20946 M16 VVV 8BY 686/033/015 CW 12-12-2003 1255 (RP3)

::: Contributors to the Logs Section

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 GG Gallus Galus, W.Europe
 GN Gert, Netherlands (via ENIGMA 2000)
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 HFD Hans-Friedrich Dumrese, Germany
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 LDO Leif Dehio, Germany
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N8KDV	N8KDV, MI USA
RedXXX	RedXXX , Central Europe
RGA	Jim, UK
RiN	Richard Ness, UK
RP3	Ron, MA, USA
SP1	Sylvain, France
Vambo	Vambo, CO, USA
WP3	Wolfgang Palmberger

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